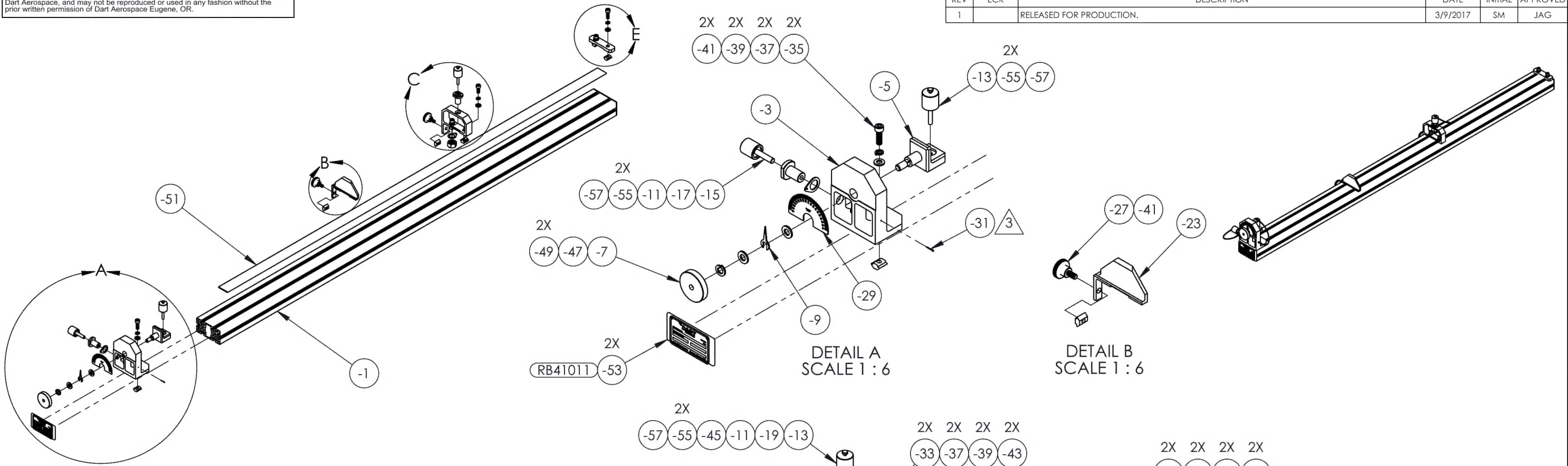
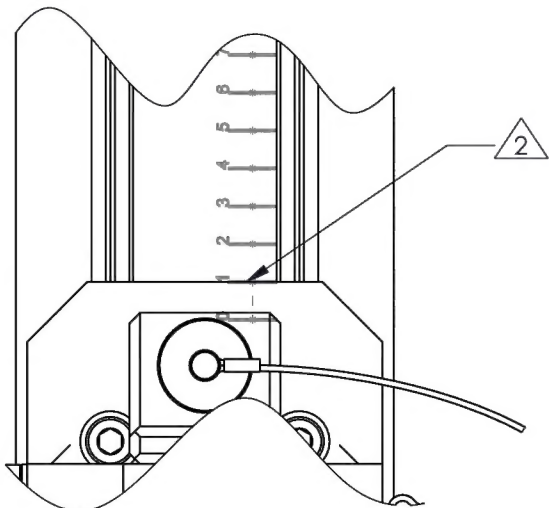
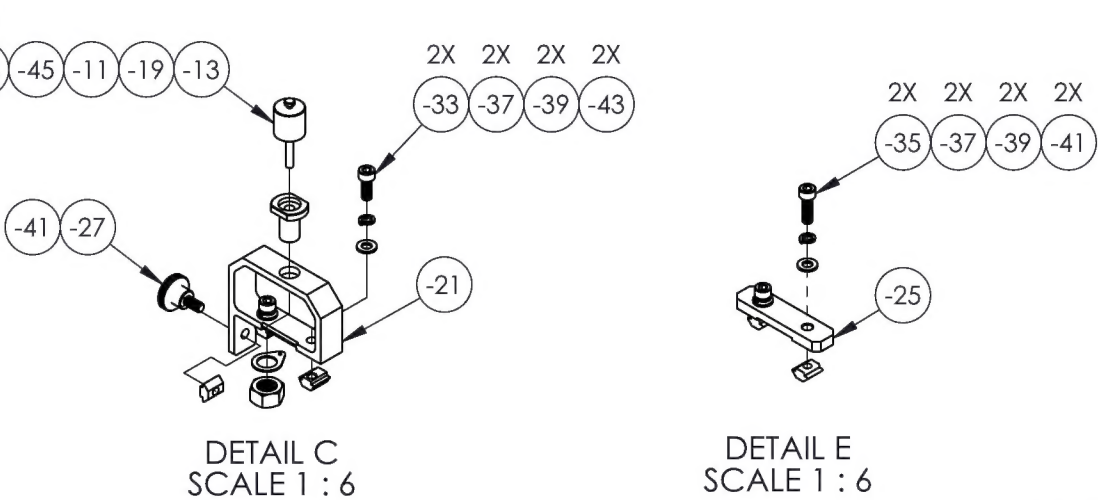


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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
1		RELEASED FOR PRODUCTION.	3/9/2017	SM
				JAG



ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
		B/O	-1	1	BEAM	ALUMINUM	MISUMI # HFS8-50100-1686 (MODIFIED)	2
			-3	1	MEASUREMENT BLOCK	6061		3
			-5	1	ROD MOUNT	303 SS		4
			-7	1	THREADED KNOB	303 SS		5
			-9	1	ANGLE HAND	A36/1018/1020 HR		6
			-11	2	LANYARD EYE	303/304 SS		7
			-13	2	ROD FASTENER, M6	303 SS		8
			-15	1	ROD FASTENER, M8	303 SS		9
			-17	1	THREADED SPACER - M8	303 SS		10
			-19	1	THREADED SPACER - M6	303 SS		11
			-21	1	MEASUREMENT BLOCK	6061		12
			-23	1	MEASUREMENT ADJUSTER	6061		13
			-25	1	RULE FASTENER PLATE	6061		14
		B/O	-27	2	THUMB SCREW	S.S.	M8 X 16mm (MCMASTER-CARR # 92558A250)	1
			-29	1	ANGLE PLATE	SS	STARRETT 50696 MODIFIED	15
		B/O	-31	1	COTTER PIN	STEEL	M1 X 10MM (MCMASTER-CARR # 98350A140)	1
		B/O	-33	2	SOCKET CAP SCREW	STEEL	M8 X 1.25 X 20MM (MCMASTER-CARR # 95263A619)	1
		B/O	-35	4	SOCKET CAP SCREW	STEEL	M8 X 1.25 X 25MM (MCMASTER-CARR # 95263A633)	1
		B/O	-37	6	LOCK WASHER	SS	M8 (MCMASTER-CARR # 91111A132)	1
		B/O	-39	6	WASHER	STEEL	M8 (MCMASTER-CARR # 91166A270)	1
		B/O	-41	6	NUT	STEEL	MISUMI # HNTT8-8	1
		B/O	-43	2	NUT	STEEL	MISUMI # HNTU8-8	1
		B/O	-45	1	HEX NUT	STEEL	M16x1.5 (MCMASTER-CARR # 91415A265)	1
		B/O	-47	1	LOCK WASHER	STEEL	M10 (MCMASTER-CARR # 91202A242)	1
		B/O	-49	2	WASHER	STEEL	M10 W/ 20 MM OD (MCMASTER-CARR # 91166A280)	1
			-51	1	RULER	STEEL	STARRETT # 64299 MODIFIED	16
		B/O	-53	2	END CAP	PLASTIC	MISUMI # HFC8-50100-B	1
		B/O	-55	6	LANYARD COMPRESSION SLEEVE	SS	FITS 1/16" WIRE ROPE (MCMASTER-CARR # 3755T13)	1
		B/O	-57	3	LANYARD	SS	1/16" X 8" COATED WIRE ROPE (MCMASTER-CARR # 8912T314)	1
		B/O		1	DART PLACARD	ALUMINUM	RB41011	1



NOTES:

- REF AIRBUS T/N: M670U4008102.
- ALIGN FACE WITH 1 CM MARK ON RULER.
- ATTACHMENT FOR -57 LANYARD

**DART**  
AEROSPACE

TITLE  
FCS ROD LENGTH ADJUSTMENT TOOL

DWG NO.  
RBEM670U4008102

MAT'L  
HEAT TREAT  
FINISH  
SPEC

DRAWN BY: MACKOVJAK  
CHECKED: DUERFELDT  
OPPS APPR: ANDERSON  
QA APPR: LINDSAY  
APPROVED: GILBERT

SCALE  
1:12

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
.XXX ± .005 FRACTIONS ± 1/8  
.XX ± .01 ANGLES ± 5°  
.X ± .1 SURFACES = 125°

1. BREAK ALL SHARP EDGES  
.015 x 45° OR .015R  
2. DIMENSIONAL LIMITS APPLY  
AFTER PLATING  
3. INTERPRET DIM AND TOL PER  
ASME Y14.5M-2009

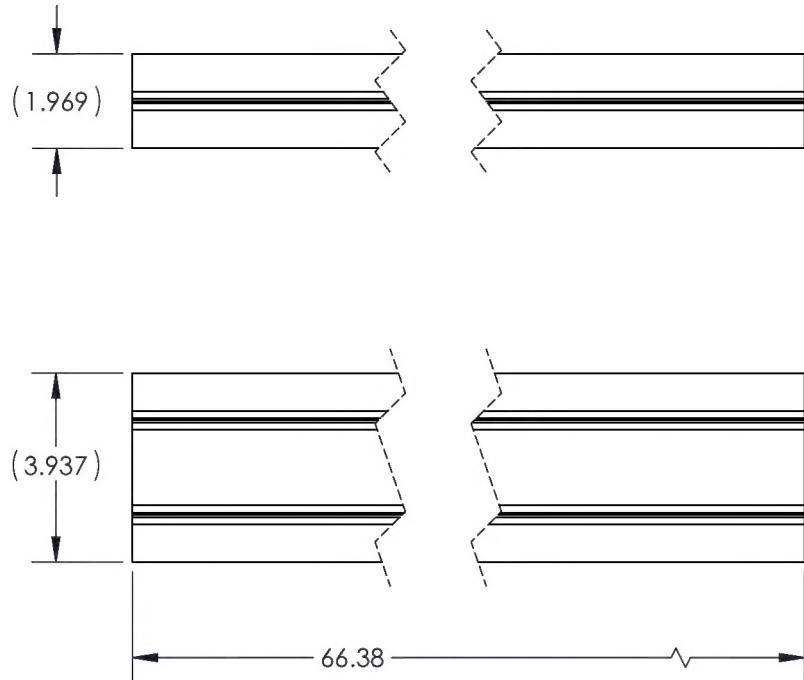
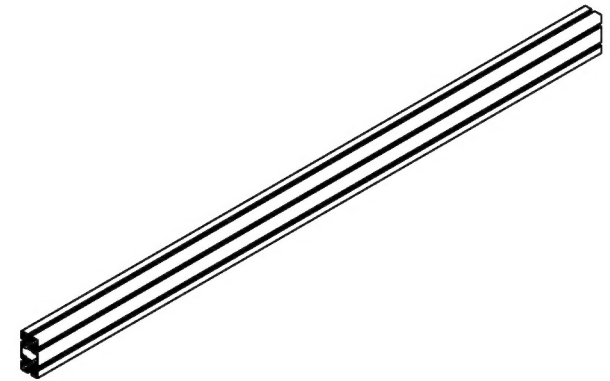
USED ON MODEL  
H175

DATE  
4/28/2016

SHEET 1 OF 16

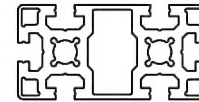
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				APPROVED



(-1)

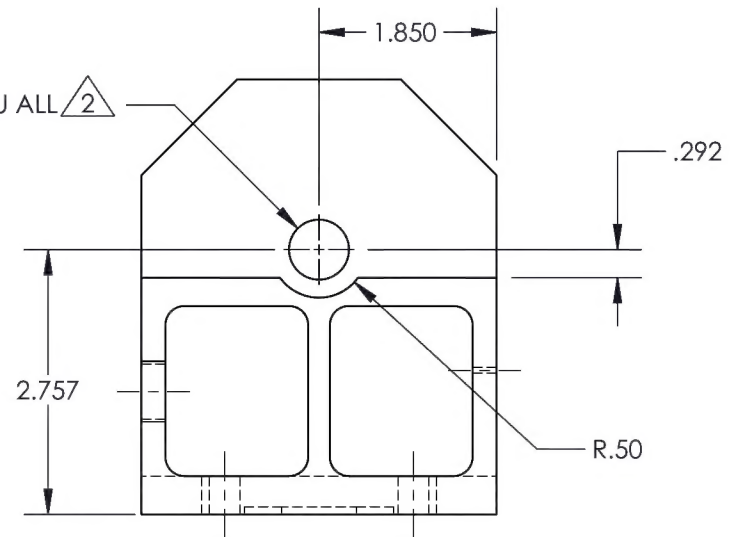
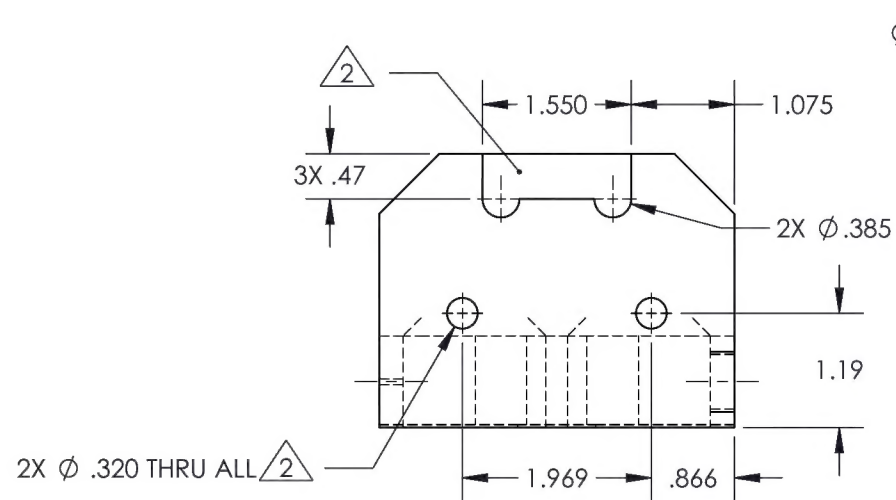
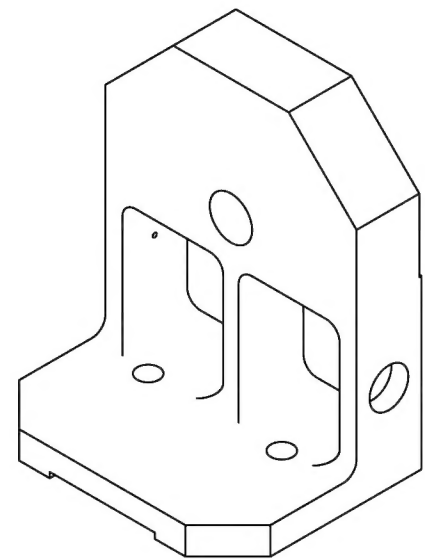
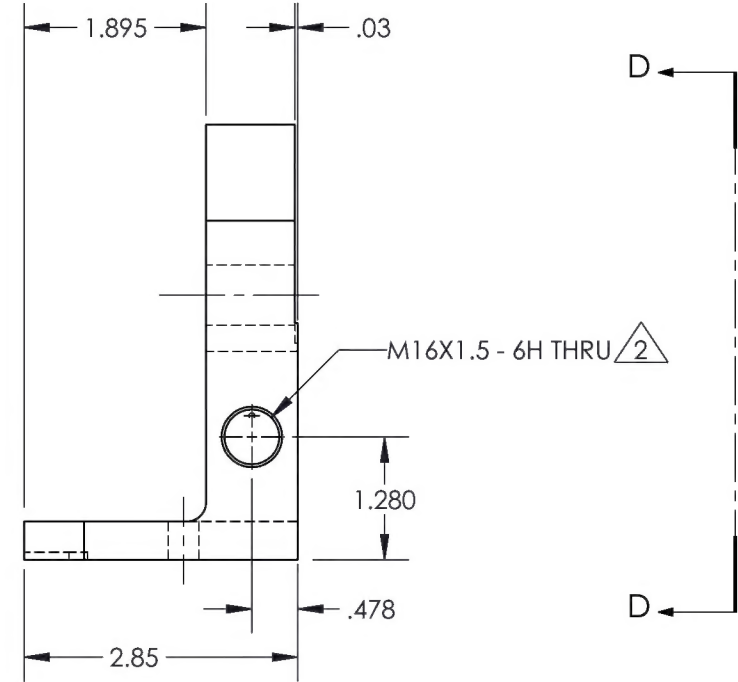
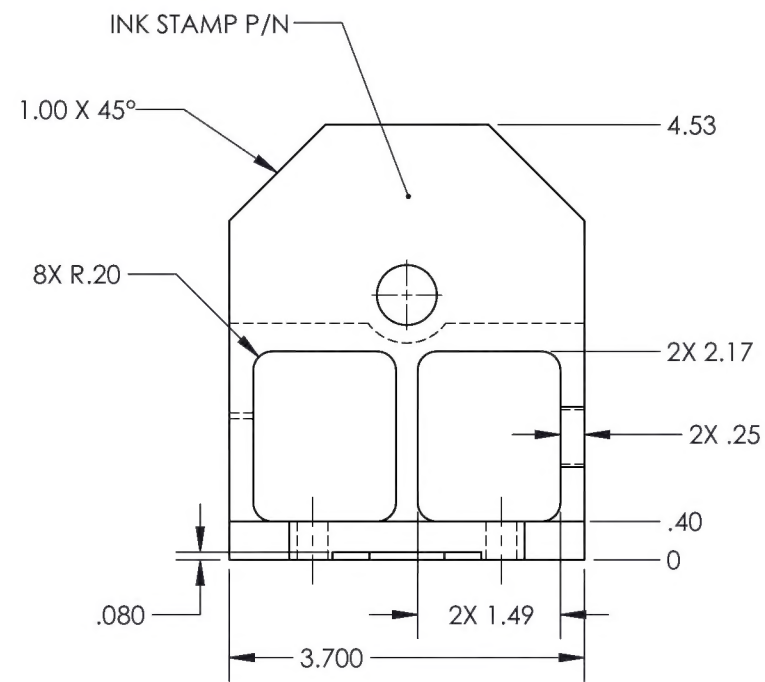
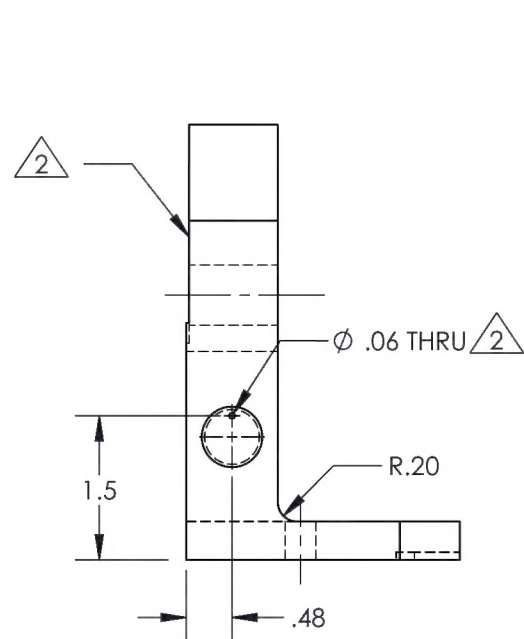
BEAM



TITLE		FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO.		RBEM670U4008102-1	
REV		1	
MAT'L ALUMINUM		UNLESS OTHERWISE SPECIFIED	
TREAT		DIMENSIONS ARE IN INCHES	
FINISH		.XXX ± .005 FRACTIONS ± 1/8	
SPEC		.XX ± .01 ANGLES ± .5°	
DRAWN BY: MACKOVJAK		.X ± .1 SURFACES = 125°	
CHECKED: DUERFELDT		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY	
APPROVED: GILBERT		AFTER PLATING	
SCALE		USED ON MODEL	
1:4		H175	
DATE		4/28/2016	
		SHEET 2 OF 16	

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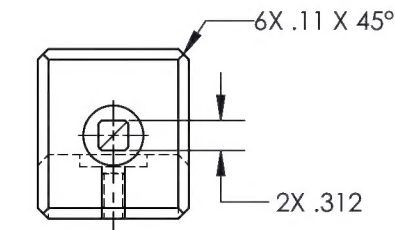
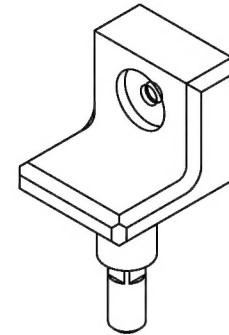
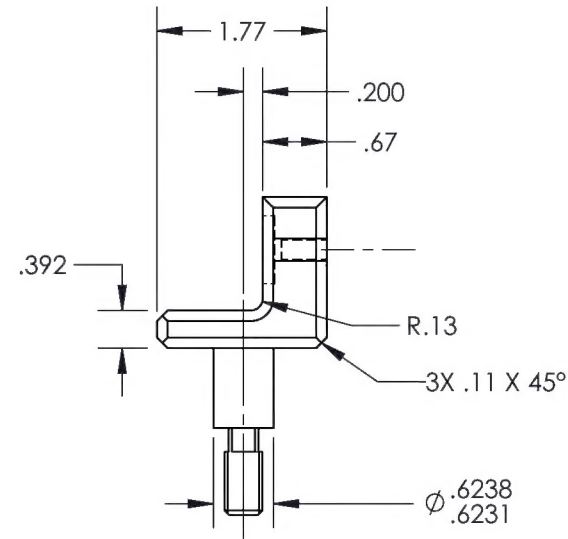
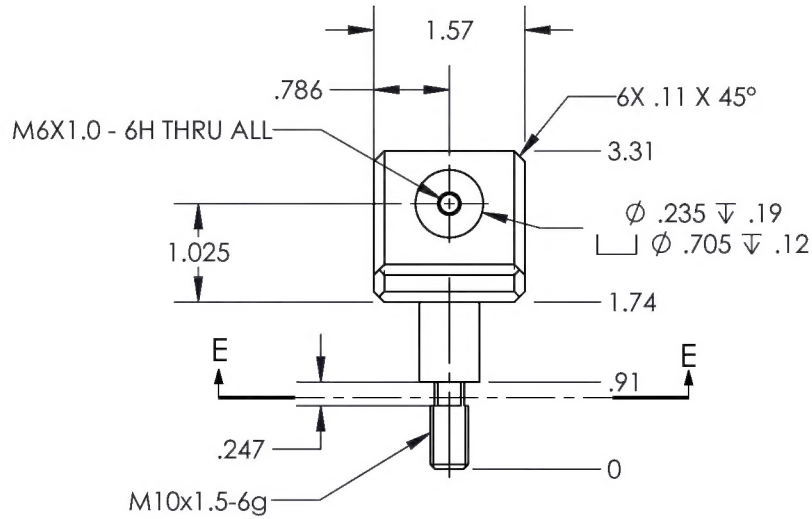
- NOTES:
- DUAL FINISH:
    - CLEAR ANODIZE, MIL-A-8625F, TYPE II, CLASS I
    - POWDER COAT YELLOW, FED #13538
  - NO POWDER COAT ON SURFACE.

DART AEROSPACE			
TITLE FCS ROD LENGTH ADJUSTMENT TOOL			
DWG NO. RBEM670U4008102-3			REV 1
MAT'L 6061		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
HEAT TREAT		.XXX ± .005 FRACTIONS ± 1/8	
FINISH SEE NOTE 1		.XX ± .01 ANGLES ± .5°	
SPEC		.X ± .1 SURFACES = 125/	
DRAWN BY: MACKOVJAK		1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
CHECKED: DUERFELDT		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
OPPS APPR: ANDERSON		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
QA APPR: LINDSAY		USED ON MODEL	
APPROVED: GILBERT		H175	
SCALE 1:2		DATE 4/28/2016	SHEET 3 OF 16

MEASUREMENT BLOCK

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REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



SECTION E-E

(-5)

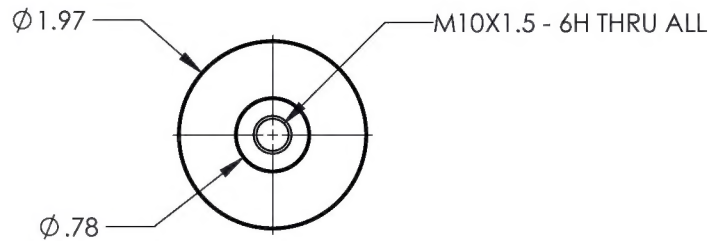
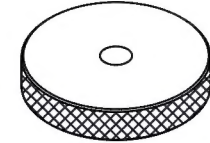
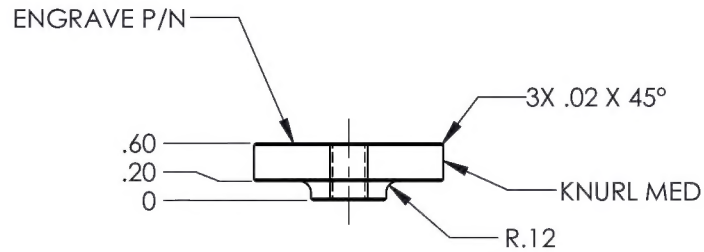
ROD MOUNT

<b>DART</b> AEROSPACE	
TITLE FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO. RBEM670U4008102-5	REV 1
MAT'L 303 SS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125°	
SPEC	
DRAWN BY: MACKOVJAK	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	H175
SCALE 1:2	DATE 4/28/2016
SHEET 4 OF 16	



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				APPROVED



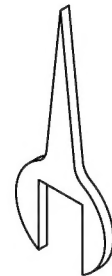
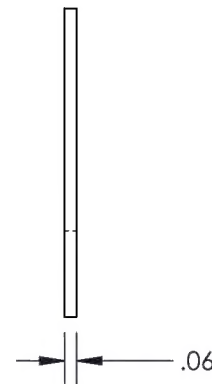
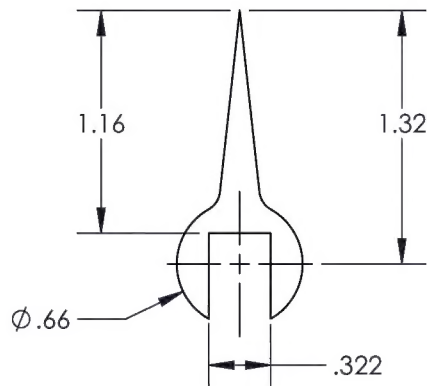
(-7)

THREADED KNOB

<b>DART</b> AEROSPACE	
TITLE FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO. RBEM670U4008102-7	REV 1
MAT'L 303 SS	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
HEAT TREAT	.XXX ± .005 FRACTIONS ± 1/8
FINISH	.XX ± .01 ANGLES ± .5°
SPEC	.X ± .1 SURFACES = 125/✓
DRAWN BY: MACKOVJAK	1. BREAK ALL SHARP EDGES .015 x 45° OR .015R
CHECKED: DUERFELDT	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
OPPS APPR: ANDERSON	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
QA APPR: LINDSAY	USED ON MODEL
APPROVED: GILBERT	H175
SCALE 1:2	DATE 4/28/2016
SHEET 5 OF 16	

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				APPROVED



NOTE:  
USE CAD DATA FOR MANUFACTURE.

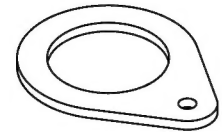
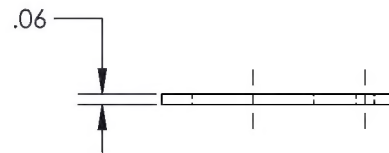
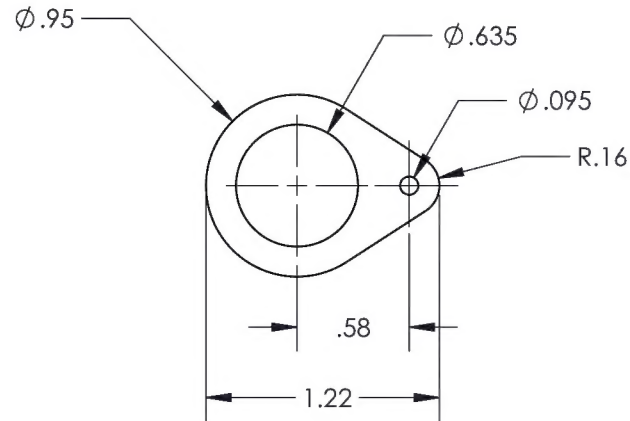
<b>DART</b> AEROSPACE	
TITLE FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO. RBEM670U4008102-9	REV 1
MAT'L A36/1018/1020 HR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH POWDER COAT RED	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125°
DRAWN BY: MACKOVJAK	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
	USED ON MODEL
	H175
SCALE 1:1	DATE 4/28/2016
	SHEET 6 OF 16

(-9)

ANGLE HAND

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				APPROVED



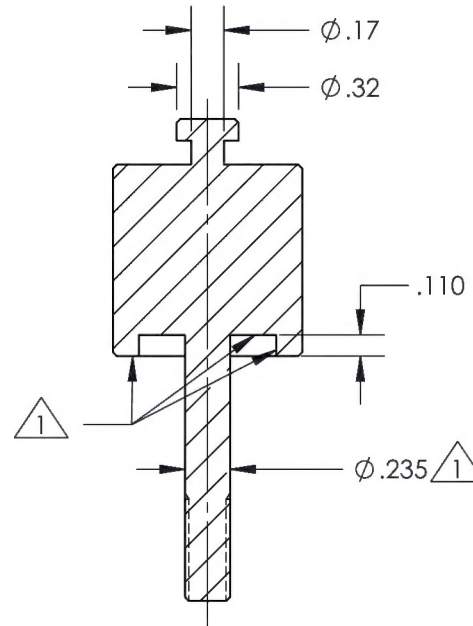
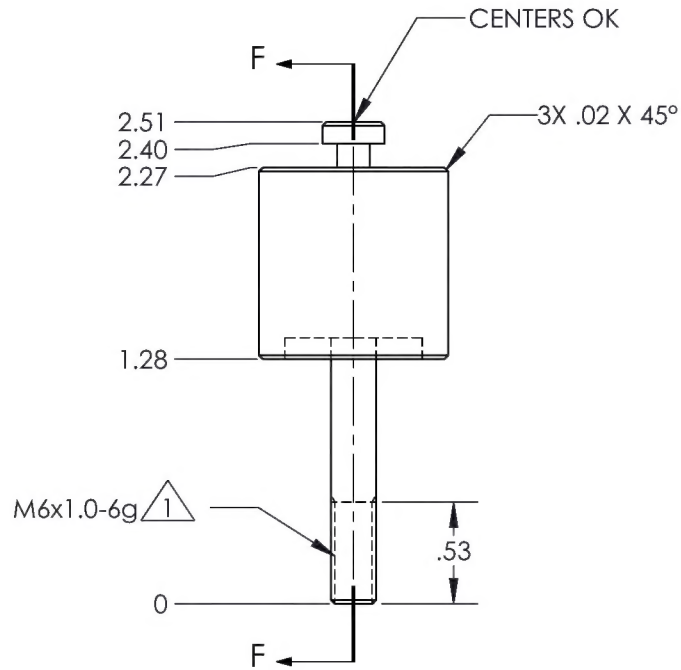
(-11)

LANYARD EYE

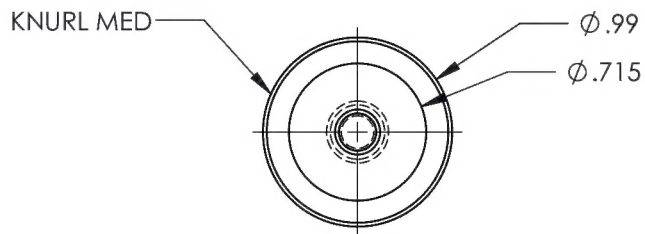
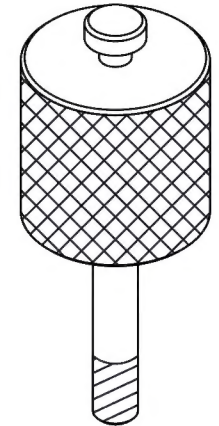
<b>DART</b> AEROSPACE	
TITLE FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO. RBEM670U4008102-11	REV 1
MAT'L 303/304 SS	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± .5°
	.X ± .1 SURFACES = 125°
DRAWN BY: MACKOVJAK	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
	USED ON MODEL
	H175
SCALE 1:1	DATE 4/28/2016
	SHEET 7 OF 16

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				APPROVED



SECTION F-F



(-13)

ROD FASTENER, M6

NOTE:

1 NO POWDER COAT ON SURFACE.

<b>DART</b> AEROSPACE	
TITLE FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO. RBEM670U4008102-13	REV 1
MAT'L 303 SS	
HEAT TREAT	
FINISH POWDER COAT YELLOW	
SPEC FED #13538	
DRAWN BY: MACKOVJAK	
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:1	
DATE 2/28/2016	
SHEET 8 OF 16	

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
.XXX ± .005 FRACTIONS ± 1/8  
.XX ± .01 ANGLES ± 5°  
.X ± .1 SURFACES = 125/

1. BREAK ALL SHARP EDGES  
.015 x 45° OR .015R
2. DIMENSIONAL LIMITS APPLY  
AFTER PLATING
3. INTERPRET DIM AND TOL PER  
ASME Y14.5M-2009

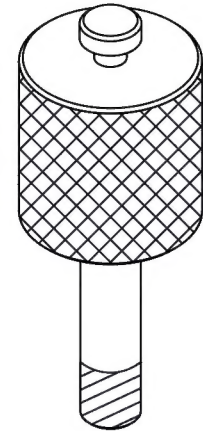
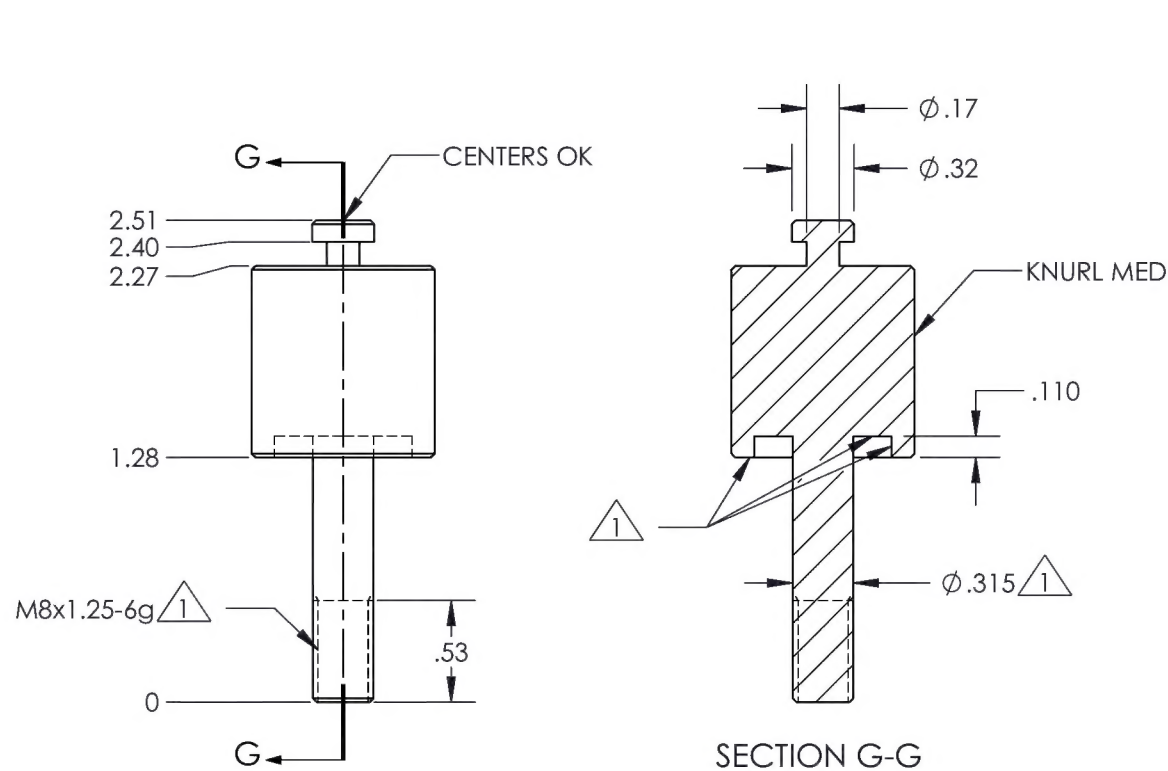
USED ON MODEL

H175



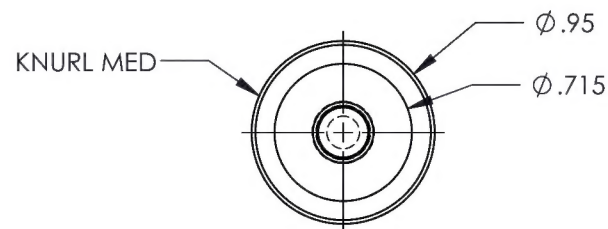
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REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



NOTE:

1 NO POWDER COAT ON SURFACE.



(-15)

ROD FASTENER, M8

<b>DART</b> AEROSPACE	
TITLE FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO. RBEM670U4008102-15	REV 1
MAT'L 303 SS	
HEAT TREAT	
FINISH POWDER COAT YELLOW	
SPEC FED #13538	
DRAWN BY: MACKOVJAK	
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
SCALE 1:1	
DATE 2/28/2016	
SHEET 9 OF 16	

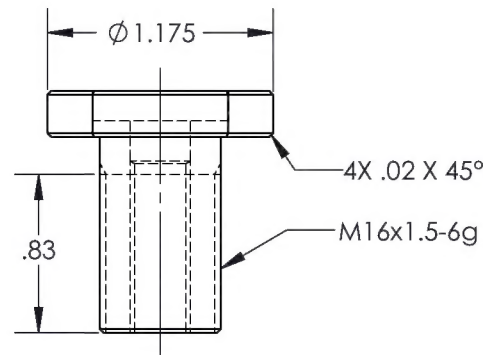
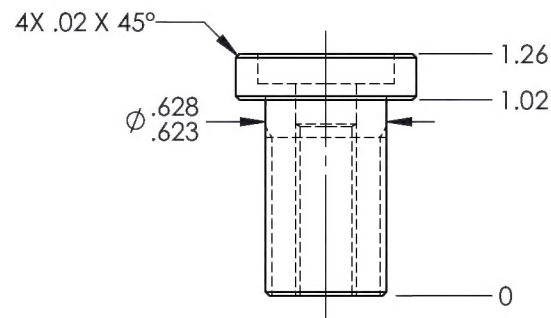
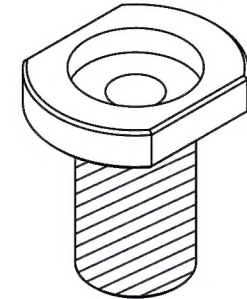
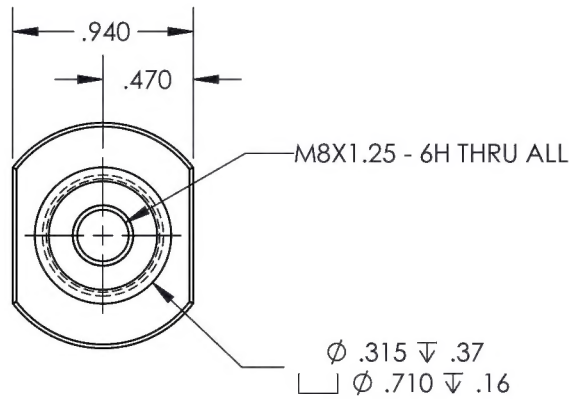
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
.XXX ± .005 FRACTIONS ± 1/8  
.XX ± .01 ANGLES ± 5°  
.X ± .1 SURFACES = 125°  
1. BREAK ALL SHARP EDGES  
.015 x 45° OR .015R  
2. DIMENSIONAL LIMITS APPLY  
AFTER PLATING  
3. INTERPRET DIM AND TOL PER  
ASME Y14.5M-2009

USED ON MODEL

H175

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				APPROVED



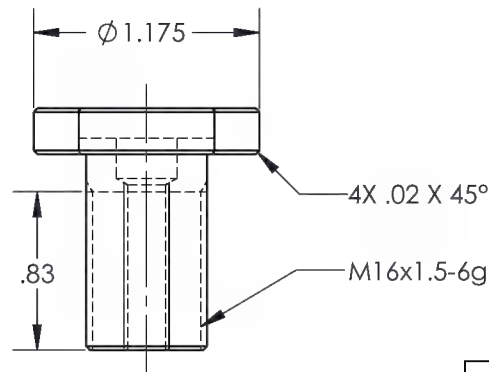
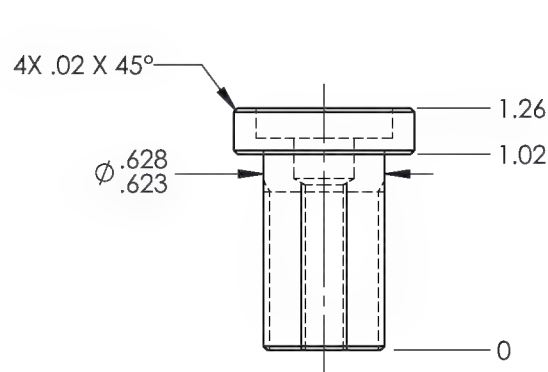
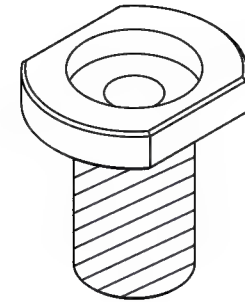
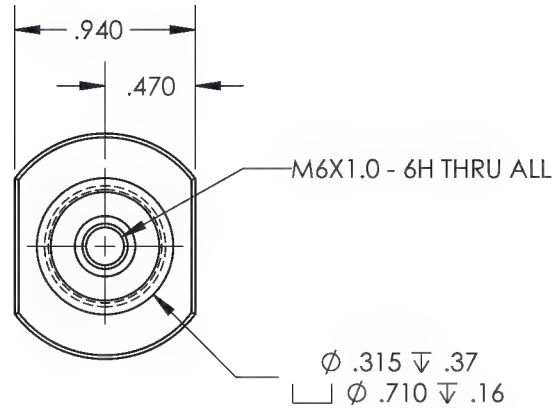
(-17)

THREADED SPACER - M8

<b>DART AEROSPACE</b>	
TITLE FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO. RBEM670U4008102-17	REV 1
MAT'L 303 SS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/8	
.XX ± .01 ANGLES ± .5°	
.X ± .1 SURFACES = 125°	
SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MACKOVJAK	
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL H175	
SCALE 1:1	DATE 4/28/2016
SHEET 10 OF 16	

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REVISIONS				
REV	ECR	DESCRIPTION	DATE	INITIAL
				APPROVED



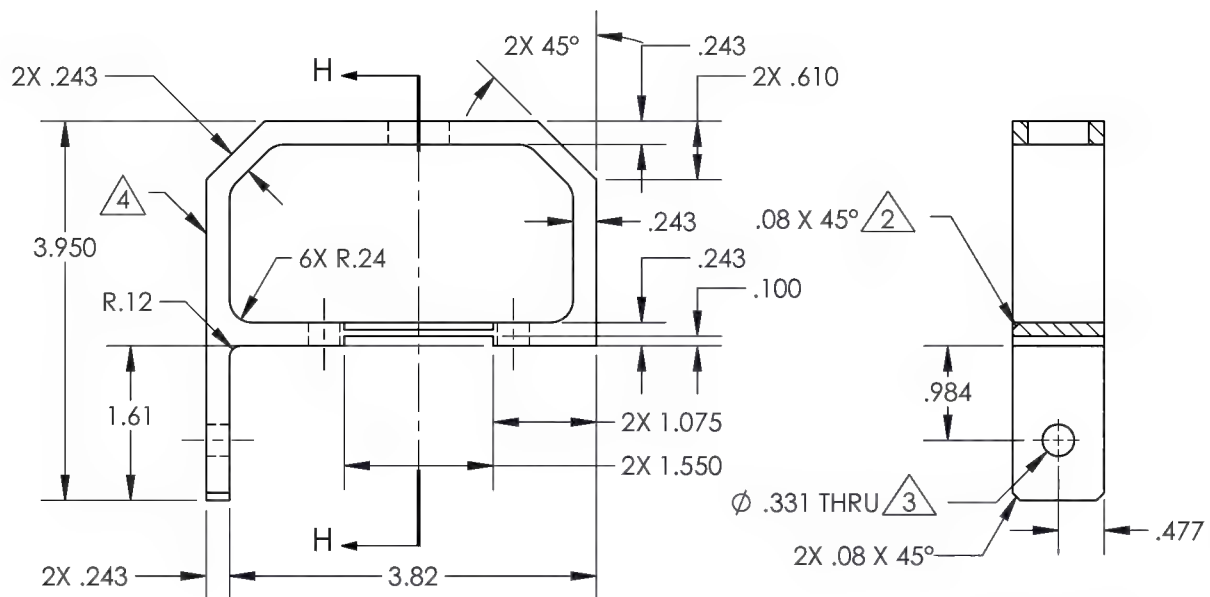
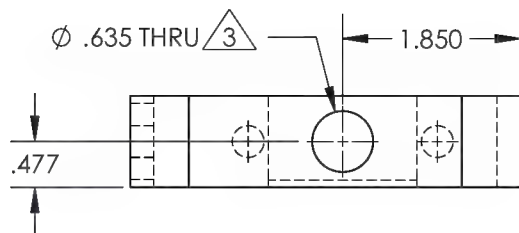
(-19)

THREADED SPACER - M6

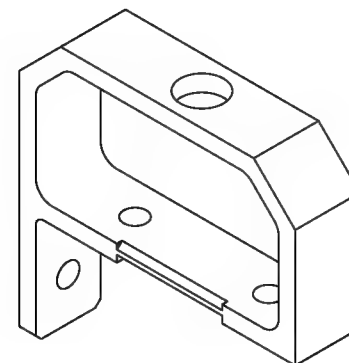
<b>DART</b> AEROSPACE	
TITLE FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO. RBEM670U4008102-19	REV 1
MAT'L 303 SS	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	
.XXX ± .005 FRACTIONS ± 1/8	
.XX ± .01 ANGLES ± .5°	
.X ± .1 SURFACES = 125°	
SPEC	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R	
2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: MACKOVJAK	
CHECKED: DUERFELDT	
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: GILBERT	
USED ON MODEL H175	
SCALE 1:1	DATE 4/28/2016
SHEET 11 OF 16	

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				APPROVED

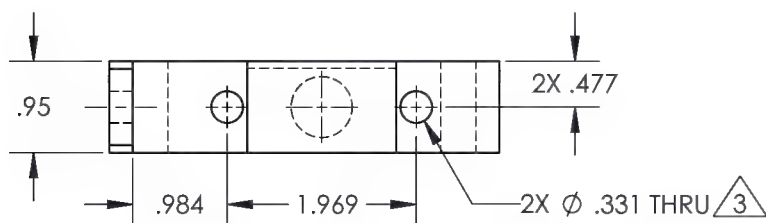


SECTION H-H



NOTES:

1. DUAL FINISH:
  - 1) CLEAR ANODIZE, MIL-A-8625F, TYPE II, CLASS I
  - 2) POWDER COAT YELLOW, FED #13538
- 2 PAINT SURFACE RED AFTER POWDER COAT.
- 3 NO POWDER COAT ON SURFACE.
- 4 INK STAMP P/N.



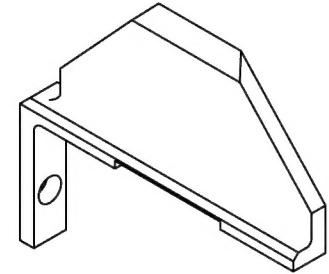
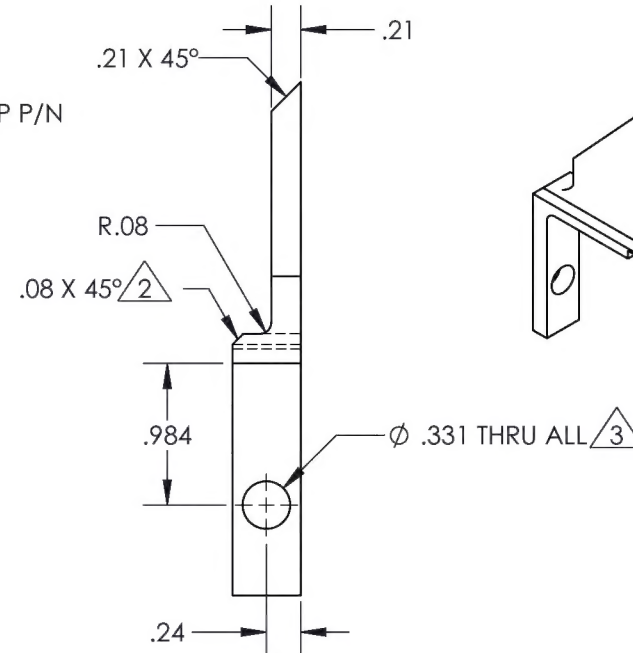
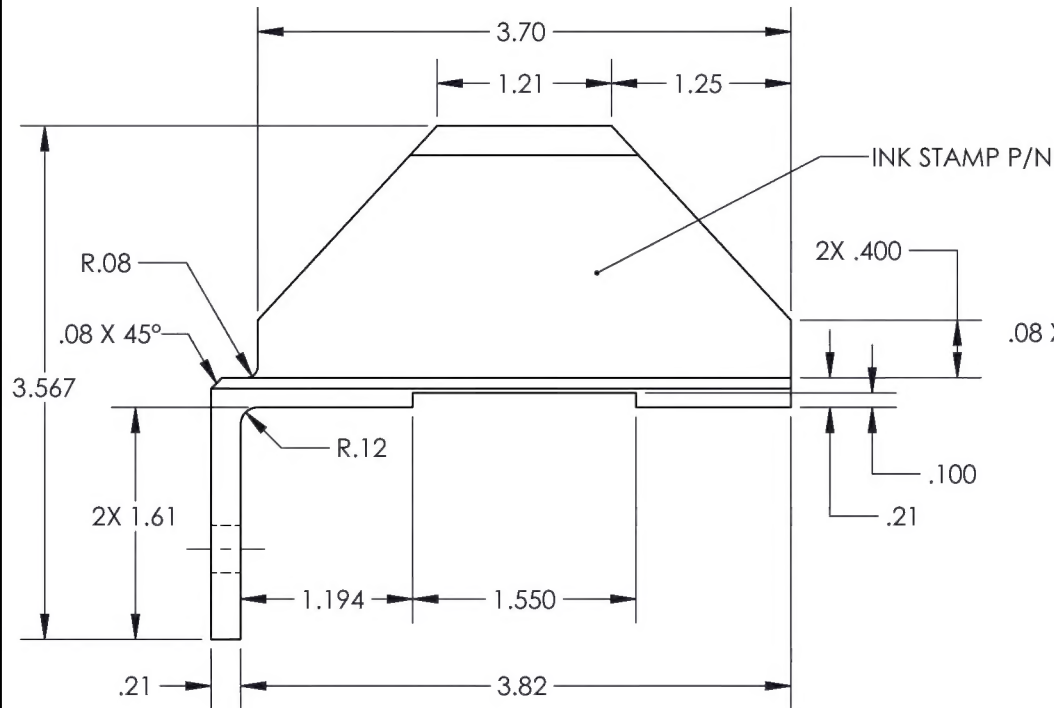
(-21)

MEASUREMENT BLOCK

<b>DART</b> AEROSPACE	
TITLE FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO. RBEM670U4008102-21	REV 1
MAT'L 6061 TREAT FINISH SEE NOTE 1 SPEC DRAWN BY: MACKOVJAK CHECKED: DUERFELDT OPPTS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125° 1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL H175	
SCALE 1:2	DATE 4/27/2016
SHEET 12 OF 16	

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REVISIONS			
REV	ECR	DESCRIPTION	DATE

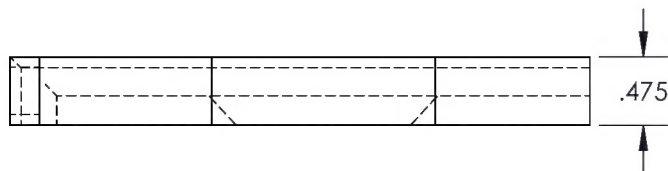


NOTES:

- DUAL FINISH:
  - CLEAR ANODIZE, MIL-A-8625F, TYPE II, CLASS I
  - POWDER COAT YELLOW, FED #13538

2 PAINT SURFACE RED AFTER POWDER COAT.

3 NO POWDER COAT ON SURFACE.



(-23)

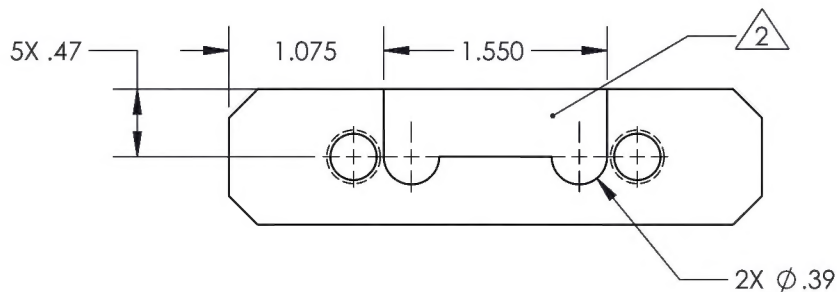
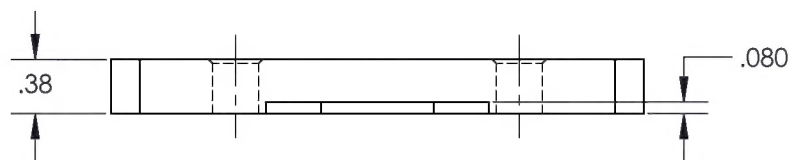
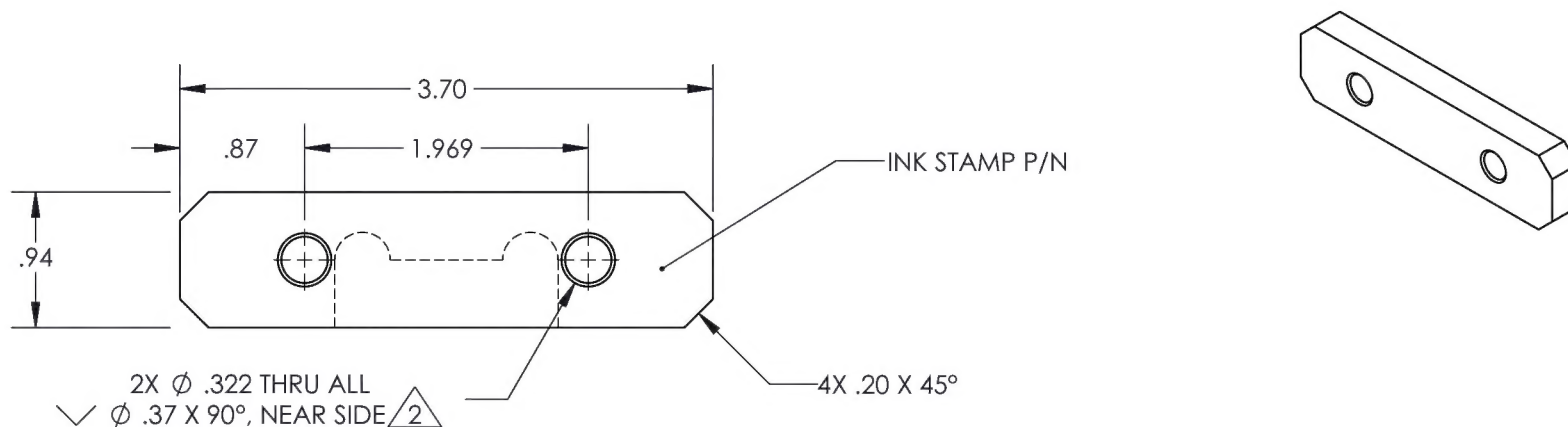
MEASUREMENT ADJUSTER

<b>DART</b> AEROSPACE	
TITLE FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO. RBEM670U4008102-23	REV 1
MAT'L 6061 HEAT TREAT FINISH SEE NOTE 1 SPEC DRAWN BY: MACKOVJAK CHECKED: DUERFELDT OPPTS APPR: ANDERSON QA APPR: LINDSAY APPROVED: GILBERT	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125 ✓ 1. BREAK ALL SHARP EDGES .015 X 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
USED ON MODEL H175	
SCALE 3:4	DATE 4/28/2016
SHEET 13 OF 16	



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				APPROVED



#### NOTES:

- DUAL FINISH:
  - CLEAR ANODIZE, MIL-A-8625F, TYPE II, CLASS I
  - POWDER COAT YELLOW, FED #13538

- NO POWDER COAT ON SURFACE.



TITLE  
FCS ROD LENGTH ADJUSTMENT TOOL

DWG NO. RBEM670U4008102-25 REV 1

MAT'L 6061  
TREAT  
FINISH SEE NOTE 1  
SPEC

UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
.XXX  $\pm$  .005 FRACTIONS  $\pm$  1/8  
.XX  $\pm$  .01 ANGLES  $\pm$  5°  
.X  $\pm$  .1 SURFACES = 125°  
1. BREAK ALL SHARP EDGES  
.015 x 45° OR .015R  
2. DIMENSIONAL LIMITS APPLY  
AFTER PLATING  
3. INTERPRET DIM AND TOL PER  
ASME Y14.5M-2009

DRAWN BY: MACKOVJAK  
CHECKED: DUERFELDT  
OPPS APPR: ANDERSON  
QA APPR: LINDSAY  
APPROVED: GILBERT  
USED ON MODEL  
H175

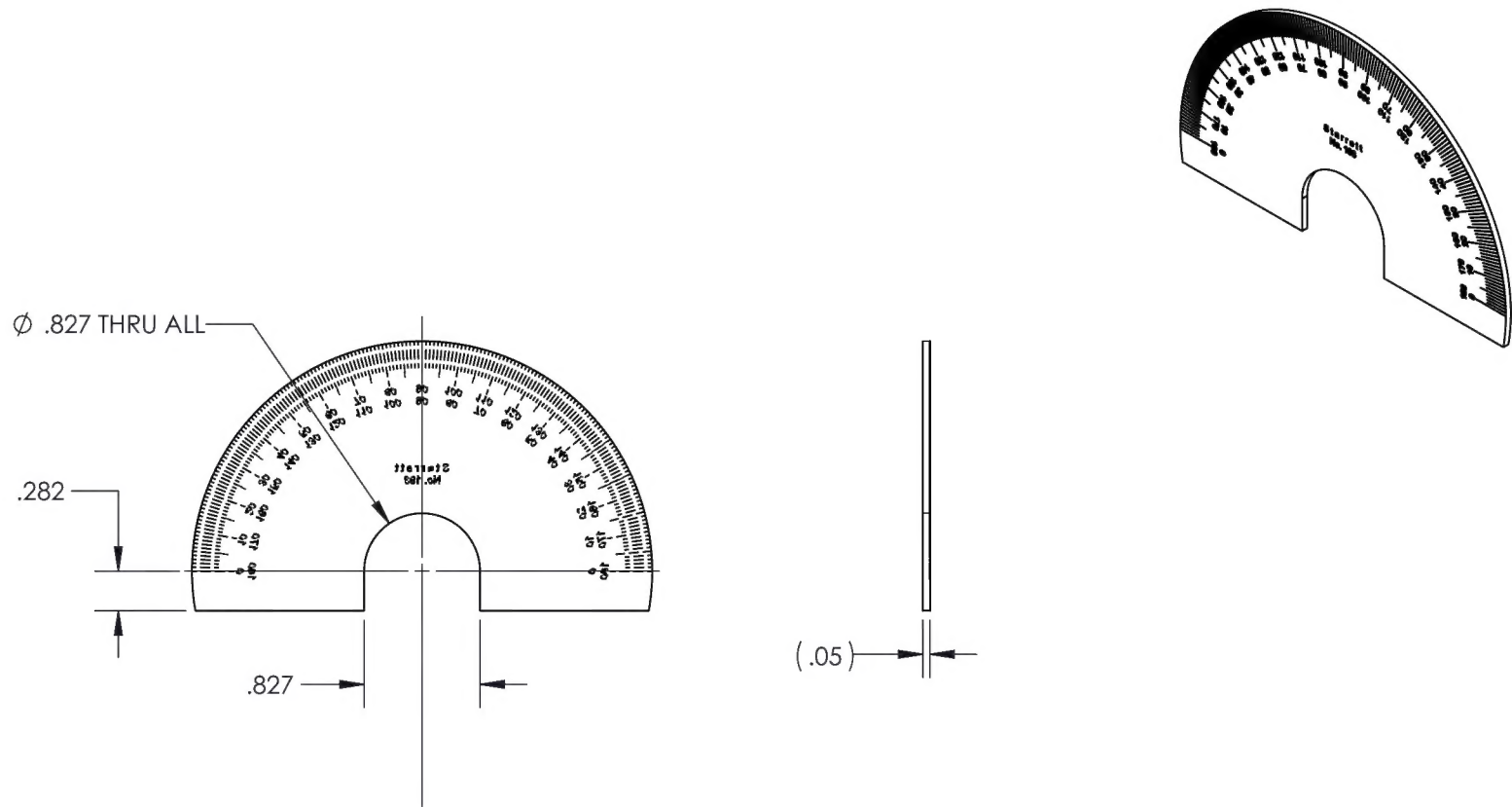
SCALE 3:4 DATE 4/28/2016 SHEET 14 OF 16

(-25)

RULE FASTENER PLATE

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				APPROVED



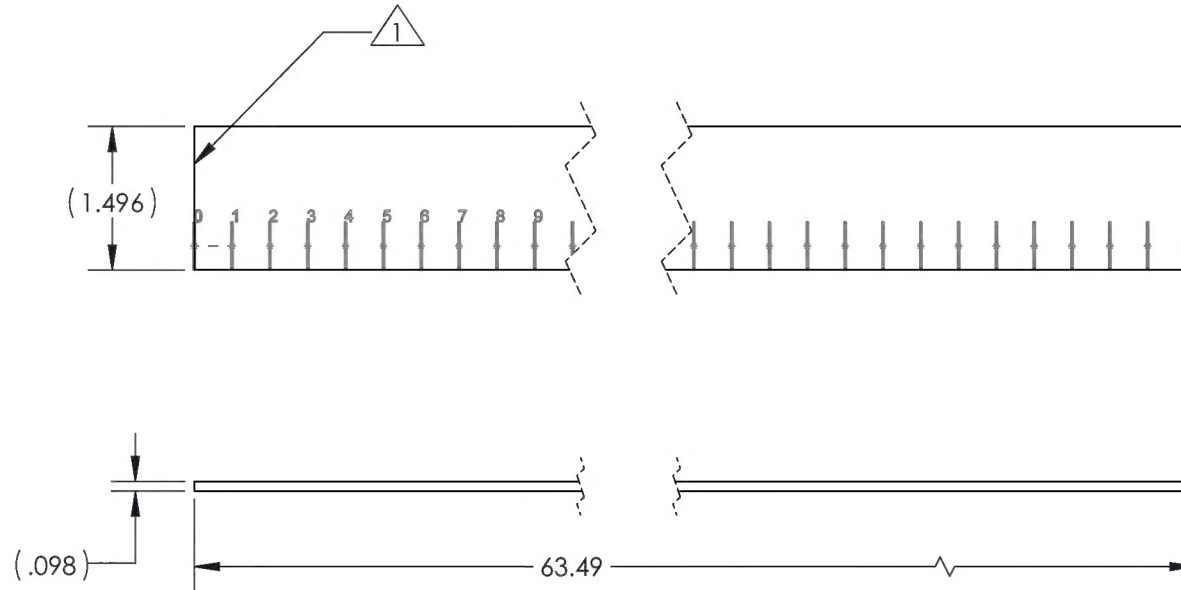
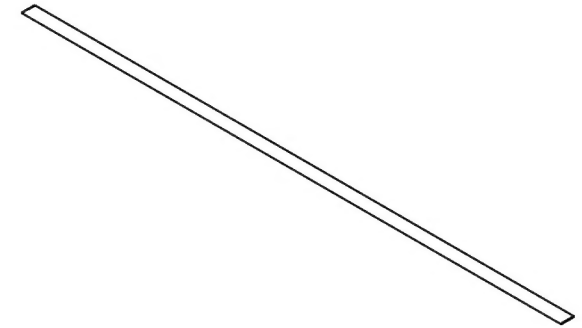
-29

ANGLE PLATE

<b>DART</b> AEROSPACE	
TITLE FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO. RBEM670U4008102-29	REV 1
MAT'L SS	UNLESS OTHERWISE SPECIFIED
TREAT	DIMENSIONS ARE IN INCHES
FINISH	.XXX ± .005 FRACTIONS ± 1/8
SPEC	.XX ± .01 ANGLES ± 5°
	.X ± .1 SURFACES = 125°
DRAWN BY: MACKOVJAK	1. BREAK ALL SHARP EDGES
CHECKED: DUERFELDT	.015 x 45° OR .015R
OPPS APPR: ANDERSON	2. DIMENSIONAL LIMITS APPLY
QA APPR: LINDSAY	AFTER PLATING
APPROVED: GILBERT	3. INTERPRET DIM AND TOL PER
	ASME Y14.5M-2009
	USED ON MODEL
	H175
SCALE 3:4	DATE 4/28/2016
	SHEET 15 OF 16

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				APPROVED



NOTE:

1 SHORTEN RULER SO THAT ONE END IS ALIGNED WITH 0 cm POSITION OF RULER.



TITLE		FCS ROD LENGTH ADJUSTMENT TOOL	
DWG NO.		RBEM670U4008102-51	
REV		1	
MAT'L		STEEL	
HEAT TREAT		UNLESS OTHERWISE SPECIFIED	
FINISH		DIMENSIONS ARE IN INCHES	
SPEC		.XXX ± .005 FRACTIONS ± 1/8	
DRAWN BY:		MACKOVJAK	
CHECKED:		DUERFELDT	
OPPS APPR:		ANDERSON	
QA APPR:		LINDSAY	
APPROVED:		GILBERT	
SCALE		1:2	
DATE		4/28/2016	
SHEET		16 OF 16	

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RULER